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REGISTRATION CENTRE NUMBER	CENTRE NAME

CANDIDATE'S FULL NAMES	

CANDIDATE IDENTIFICATION NUMBER	SUBJECT CODE 0595	PAPER NUMBER 3 Group One

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CAMEROON GENERAL CERTIFICATE OF EDUCATION BOARD
ORDINARY LEVEL EXAMINATION

SUBJECT TITLE COMPUTER SCIENCE	SUBJECT CODE 0595	PAPER NUMBER 3 Group One

EXAMINATION DATE: JUNE 2020

Two and a Half hours

Enter the information required in the shaded boxes

For your guidance, the approximate mark for each part of a question is indicated in brackets.

You are reminded of the necessity for good English and orderly presentation in your answers.

In calculations, you are advised to show all the steps in your working, giving your answer at each stage.

All written answers should be provided in the spaces provided in this question booklet.

Calculators are NOT allowed.

Turn Over

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Do all the tasks (Task 1, Task 2 and Task 3) specified in this question paper.

TASK 1 (20 marks)

Figure 1 shows a story typed and enclosed in a frame. Your task is to type, edit and format the text as requested.

The Cunning Fox and the Clever Stork

Once upon a time, there lived a very cunning and mischievous fox. He used to speak to other animals sweetly and gain their trust, before playing tricks on them. One day the fox met a stork. He befriended the stork and acted like a very good friend. Soon, he invited the stork to have a feast with him. The stork happily accepted the invitation.

The day of the feast came, and the stork went to the fox's house. To her surprise and disappointment, the fox said that he could not make a big feast as promised, and just offered some soup. When he brought the soup out of the kitchen, the stork saw that it was in a shallow bowl! The poor stork could not have any soup with its long bill, but the fox easily licked the soup from the plate…

The day arrived and the fox reached the stork's place. After exchanging pleasantries, the stork served soup for both of them, in a narrow jar with a long neck. She was able to have the soup very easily with her long bill, but the fox obviously could not. After finishing hers, the stork asked the fox if he was enjoying the soup. The fox remembered the feast he himself had given the stork, and felt very ashamed. He stammered, "I…I'd better leave now. I have a tummy ache." Humiliated, he left the place running.

Morale: One bad turn begets another.

Source https://www.kidsworldfun.com/shortstories_foxandstork.php

---

Figure 1

1. State the name(s) of the word processor(s) installed in your PC.   **(1 mark)**
    <u>Micro Soft office word 2007</u>

2. Launch a word processor program from your PC and type the text of Figure 1.
    Justify the three paragraphs.   **(10 marks)**

3. For the title, Bold, Center, underline, and apply a font size of 16.   **(1 mark)**

4. Add a light blue background colour to the title.   **(1 mark)**

5. Select the body text and apply a serif font of size 12.   **(2 marks)**

6. Insert the image called 'foxandstork' (found on the desktop) at the left of the first paragraph
    and wrap text to its right.   **(2 marks)**

7. Insert page number as header.   **(2 marks)**

8. Insert a footer with the text 'One bad turn begets another' at the bottom left.   **(1 mark)**

9. Save your work as Task 1 in your working directory.

10. Print copy of task 1

TASK 2 (20 marks)

An excerpt of a worksheet in Figure 2 shows mock examination results of 10 students in Form 5. All marks on 20.

S/n	Students Names	Sex	Eng	Fre	Mat	His	Geo	Econs
	Mock Exam Results - 2009							
1	Njie Fabian	M	12	9	11.5		13	13.5
2	Tatah Ami	F	7	12	10	14	9	11
3	Verla Jones	M	13.5	11		16	14	10.5
4	Mvogo Cliff	M	5	11	13	12.5	10	15.5
5	Mary Tita	F	11	9	14	16	11	16
6	Tataw Princewill	M	8	10	13.5	13	10	11
7	Akemjia Leonard	M	9.5	11	12		11	13.5
8	Ful Saradia	F	13	11.5	10	16.5	13.5	10.5
9	Ngemoussi Juliet	F	14	12.5	15	13.5	11	14.5
10	Kinah Queenta	F	10.5	14	13.5	12	9	11.5

Figure 2

1.	Create a workbook called Task 2 and enter the worksheet data exactly as provided.	**(5 marks)**
2.	a) Use a bold font of size 14 for the title. b) Use a bold font of size 12 for the column headers. c) Auto fit all data columns. d) Merge cells A1 to I1 and center the title.	**(1 mark)** **(1 mark)** **(1 mark)** **(1 mark)**
3.	Add the following three column headers to the right of column I: **SubSat, Avge and Rank**.	**(1 mark)**
4.	For the first student Njie Fabian, use suitable spreadsheet functions (or formulas) to calculate: a) number of subjects sat, b) average (correct to 2 decimal places) and c) rank. d) Hence, calculate similar values for the other students.	**(2 marks)** **(2 marks)** **(2 marks)** **(2 marks)**
5.	Save your work as Task 2 in your working directory.	
6.	Print a copy of Task 2.	

Turn over

4

TASK 3 (10 marks)

The C and Pascal programs below perform the same task. Select any one of them and answer the questions that follow.

C Program

```c
#include <stdio.h>
int main(void) {
    int num;
    printf("Enter a number: ");
    scanf("%d",&num);
    while (num < 5) {
        printf("%d  ",num);
        num = num+1;
    }
    getchar();
}
```

Pascal Program

```pascal
program Numbers;
var num: integer;
BEGIN
    write('Enter a number: ');
    readln(num);
    while num < 5 do
        begin
            write(num,'  ');
            num := num + 1;
        end;
    readln;
END.
```

1. Launch either a C or Pascal program development environment, and key in the corresponding program. Compile the program. If any errors, keep correcting and compiling until all the errors are corrected.

   (2 marks)

2. Run the program and enter -2 when prompted for a number. Write the output you observe in the space below. Write NONE if there is no output. **(1 mark)**

3. Run the program again but this time, enter 10 when prompted for a number. Write the output you observe in the space below. Write NONE if there is no output. **(1 mark)**

5

(3 marks)

4. Explain what the program is designed to do.

_____
_____
_____
_____
_____

5. The keyword "**while**", which is used in the program is an example of which programming construct? Explain
how the stated programming construct works in this program.   **(3 marks)**

(a) Programming construct _____

(b) Explanation: _____
_____
_____
_____

6. Save your work as Task 3.
7. Print Task 3.

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REGISTRATION CENTRE NUMBER	CENTRE NAME

CANDIDATE'S FULL NAMES

CANDIDATE IDENTIFICATION NUMBER	SUBJECT CODE 0595	PAPER NUMBER 3 Group Two

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CAMEROON GENERAL CERTIFICATE OF EDUCATION BOARD
ORDINARY LEVEL EXAMINATION

SUBJECT TITLE COMPUTER SCIENCE	SUBJECT CODE 0595	PAPER NUMBER 3 Group Two
	EXAMINATION DATE: JUNE 2020	

Two and a Half hours

Enter the information required in the shaded boxes

For your guidance, the approximate mark for each part of a question is indicated in brackets.

You are reminded of the necessity for good English and orderly presentation in your answers.

In calculations, you are advised to show all the steps in your working, giving your answer at each stage.

All written answers should be provided in the spaces provided in this question booklet.

Calculators are NOT allowed.

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Turn Over

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Do all the tasks (Task 1, Task 2 and Task 3) specified in this question paper.

TASK 1 (20 mark

Figure 1 is a story typed and enclosed in a frame. Your task is to type, edit and format the text as requested.

The Hare and the Tortoise

There once was a speedy hare who bragged about how fast he could run. Tired of hearing him boast, the tortoise challenged him to a race. All the animals in the forest gathered to watch. The hare ran down the road for a while and then paused to rest. He looked back at the tortoise and cried out, "How do you expect to win this race when you are walking along at your slow, slow pace?" The hare stretched himself out alongside the road and fell asleep, thinking, "There is plenty of time to relax."

The tortoise walked and walked, never ever stopping until he came to the finish line. The animals who were watching cheered so loudly for tortoise that they woke up the hare. The hare stretched, yawned and began to run again, but it was too late. Tortoise had already crossed the finish line.

After being defeated by the tortoise, the hare did some soul-searching. He knew that though he had tried hard in the beginning, he was not consistent, and had grown overconfident. He was determined to undo his mistakes, and invited tortoise for another race. This time, the rabbit was careful to run the whole distance, and of course, emerged the winner.

Morale: Fast and consistent may be better than slow and steady.
Source: *https://www.kidsworldfun.com/shortstories hareandtortoise.php*

Figure 1

1) Launch any word processor installed in your PC and type all the text of Figure 1. (7 marks)
2) Describe the easiest way to count the words in the text. Hence, state the number of words in the (2 marks)

story._____

_____

_____

3) Separate the text within the three main paragraphs into 2 columns. (2 marks)
4) Justify the text in the columns and increase line spacing to 1.15. (2 marks)
5)   a. Bold, Center and apply a font size of 16 to the title. (2 marks)
      b. Select the story text and apply a serif font of size 11. (1 mark)
      c. Insert a Drop Cap for the first letter of the first paragraph. (2 marks)

6) Insert the image **hareandtortoise** (found on the desktop) at the start of the third paragraph of your text. (2 marks)
7) Save your work as Task 1 in your working directory.
8) Print a copy of task 1.

Task 2 (20 marks)

The workbook in Figure 2 below shows mock examination grade results for 10 students in Form 5.

S/n	Students Names	Sex	Eng	Fre	Mat	His	Geo	Econs	CTZ
	Mock Exam Results - 2009								
1	Ngemoussi Juliette	F	B	D	C	D	A	B	D
2	Verla Jones	M	C		D		B	C	B
3	Mary Tita	F	B	D	C	B	C	B	C
4	Ful Saradia	F	D	A	D	B	D		D
5	Njie Fabian	M	A	C	D	C	D	D	B
6	Kinah Queenta	F	B	D	A	D	C	C	D
7	Akemjia Leonard	M	C	D		C	B	D	D
8	Mvogo Cliff	M	D	C	B	A	A	A	B
9	Tataw Princewill	M	D	B	A	D	D	D	A
10	Tatah Ami	F	B	D	C	B	D	C	D

Figure 2

1) Create a workbook called Task 2 and key in the data as provided. **(4 marks)**

2) Format the worksheet data as follows
   a. Bold and use a font size of 14 for the title. **(1 mark)**
   b. Bold and use a font size of 12 for the column headers. **(1 mark)**
   c. Bold, center and use italic font in all cells with grades. **(1 mark)**
   d. Merge cells A1 to J1 and center the title. **(1 mark)**

3) Given that the pass grades are A, B and C:
   a. Add three more columns headers to the right of Column J with headers **SubjectsSat, SubjectsPassed, and AGrades**. **(1 mark)**
   b. Use suitable spreadsheet functions to calculate the number of subjects sat, subjects passed and A grades earned for the first student Ngemoussi Juliette. **(6 marks)**
   c. Hence calculate similar values for the other students **(2 marks)**

4) Write in the space below, the formula typed in cells K3, L3 and M3.

_____

_____ **(3 marks)**

Turn over

4

TASK 3 (10 marks)

The C and Pascal programs below perform the same task. Select any one of them and answer the questions that follow.

C Program

```
#include <stdio.h>
int main(void) {
  int num;
  printf("Enter a number: ");
  scanf("%d",&num);
  while (num > 5) {
      printf("%d   ",num);
      num = num-1;
  }
  getchar();
}
```

Pascal Program

```
program Numbers;
var num: integer;
BEGIN
    write('Enter a number: ');
    readln(num);
    while num > 5 do
       begin
           write(num,'  ');
           num := num - 1;
       end;
    readln;
END.
```

1. Launch either a C or Pascal program development environment, and key in the corresponding program. Compile the program. If any errors, keep correcting and compiling until all the errors are corrected. **(2 marks)**

2. Run the program and enter 10 when prompted for a number. Write the output you observe in the space below. Write NONE if there is no output. **(1 mark)**

_____

_____

3. Run the program again but this time, enter 2 when prompted for a number. Write the output you observe in the space below. Write NONE if there is no output. **(1 mark)**

_____

_____

4. Explain what the program is designed to do. **(3 marks)**

_____

_____

_____

5

5. The keyword "while", which is used in the program is an example of which programming construct? Explain how the stated programming construct works in this program. **(3 marks)**

Programming construct: _____

Explanation: _____

_____

_____

6. Save Task 3.
7. Print Task 3.

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REGISTRATION CENTRE NUMBER	CENTRE NAME

CANDIDATE'S FULL NAMES

CANDIDATE IDENTIFICATION NUMBER	SUBJECT CODE 0595	PAPER NUMBER 3 Group Three

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CAMEROON GENERAL CERTIFICATE OF EDUCATION BOARD
ORDINARY LEVEL EXAMINATION

SUBJECT TITLE COMPUTER SCIENCE	SUBJECT CODE 0595	PAPER NUMBER 3 Group Three
	EXAMINATION DATE: JUNE 2020	

Two and a Half hours

Enter the information required in the shaded boxes

For your guidance, the approximate mark for each part of a question is indicated in brackets.

You are reminded of the necessity for good English and orderly presentation in your answers.

In calculations, you are advised to show all the steps in your working, giving your answer at each stage.

All written answers should be provided in the spaces provided in this question booklet.

Calculators are NOT allowed.

_____ **Turn Over**

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2

Do all the tasks (Task 1, Task 2 and Task 3) specified in this question paper.

TASK 1(20 marks)
The text in Figure 1 is a career letter to a friend.

Mojoali Brenda
P.O. Box 10000
Old Town, Limbe
Fako Division
SW Region
20th June 2015

Dear Crispin,

I want to write to you about my future career. I am a school-leaver and this year I am finishing school. When you leave school, you understand that the time to choose your future profession has come. It is not an easy task to choose the right job for you.

There are a lot of different professions and it is really hard to choose the one, which would be interesting for you and will help you earn your living. Generally, I think that choosing the right job is the main question not only for a school-leaver, but also for all the family.

I would like to become a teacher. In my opinion, to be a teacher is not an easy task because you need not only to love children, but you also should have an ability to explain things clearly, know your subject profoundly and be an all-around person. Though this is not the easiest task, I am sure that I have got almost all necessary qualities to become a really good teacher.

Nowadays it is very important to know a foreign language, especially English. More and more people need qualified teachers to teach them today. I understand that this profession is greatly demanded and that is why I would like to become an English teacher.

I wait for the letter with impatience.

Best wishes,

Brenda

Figure 1

1)Launch any word processor program installed in your PC and:

    a) Set paper size to A4.   **(1 mark)**
    b) Set left and right page margins to 0.75 inches (or 2cm) respectively.   **(1 mark)**
    c) Type the text of Figure 1.   **(8 mark)**
    d) Change the text background color to a light sky blue color   **(1 mark)**
    e) Add a page border of width 3pt.   **(2 mark)**
2)   a) Bold the address section of the letter.   **(1 mark)**
    b) Set the line spacing of the whole letter to 1.5.   **(1 mark)**
3) Add a custom diagonal watermark text with the following specifications:

    a) Font Size: 100 points   **(1 mark)**
    b) Text as "Career Letter"   **(3 mark)**
    c) Color Brick red
4) Save your work as Task 1 in your work directory.   **(1 mark)**
5) Print Task 1.

3

Task 2 (20 marks)

The worksheet in Figure 2 shows a patient's temperature measured every four hours for five days of admission in a hospital.

	A	B	C	D	E	F
1	Time	Monday	Tuesday	Wednesday	Thursday	Friday
2	4:00	38	38.2	38.6	39.1	37.8
3	8:00	37.3	38.3	38.7	38.8	37.6
4	12:00	37	38	38.8	38.6	37.4
5	16:00	37.4	38.1	39	38.4	37.4
6	20:00	37.6	38.3	39.1	38.2	37.2
7	0:00	38	38.5	39.4	38	36.8

Figure 2

1) Create a workbook called Task 2 and enter the worksheet data as provided with formatting.   (5 marks)

2)   a. Select the data and create a Line Chart for the various days and times.   (2 marks)

   b. Insert chart title as Temperature Variations   (1 mark)

   c. Add chart Axis titles as Temperature (degree Celsius) and Time (Hours)   (2 marks)

   d. Displace the chart legend to the right of the chart.   (1 mark)

3) Use a spreadsheet formula in cell B9 to calculate the average temperature for Monday. Copy the formula across to the other days.   (2 marks)

4) Create a bar chart for the average daily temperatures and label the axes.   (3 marks)

5) Create a pie chart of days versus the average daily temperatures.   (4 marks)

6) **Save your work as Task 2 in your working directory and print a copy.**

_____ Turn over

4

TASK 3 (10 marks)

The C and Pascal programs below perform the same task. Select any one of them and answer the questions that follow.

C Program

```c
#include <stdio.h>
int main(void) {
  int i, num;
  printf("Enter a number: ");
  scanf("%d",&num);
  for (i=4;i<=num;i++)
      printf("%d  ",i);
  getchar();
}
```

Pascal Program

```pascal
program Numbers;
var i,num: integer;
BEGIN
    write('Enter a number: ');
    readln(num);
    for i := 4 to num do
        write(i,'  ');
    readln;
END.
```

1. Launch either a C or Pascal program development environment, and key in the corresponding program. Compile the program. If any errors, keep correcting and compiling until all the errors are corrected. Save as Task 3.

(2 marks)

2. Run the program and enter 10 when prompted for a number. Write the output you observe in the space below. Write NONE if there is no output. (1 mark)

_____

_____

3. Run the program again but this time, enter 3 when prompted for a number. Write the output you observe in the space below. Write NONE if there is no output. (1 mark)

_____

_____

4. Explain what the program is designed to do.

(3 marks)

_____

_____

_____

_____

_____

5

5. The keyword "for", which is used in the program is an example of which programming construct? Explain how the stated programming construct works in this program. (3 marks)

    (a) Programming construct _____

    (b) Explanation _____

    _____

    _____

6. Save Task 3.
7. Print Task 3.